

EXHIBIT A

ATGGAGCAAACAGTGCTTGTACCAACCAGGACCTGAC	302
M E Q T V L V P P G P D	12
AGCTTCAACTTCTTCACCAGAGAATCTCTGGCGCTATTGAAAGACGCATTGCAGAAGAA	362
S F N F F T R E S L A A I E R R I A E E	32
AAGGCAAAGAATCCCAAACCAGACAAAAAGATGACGACGAAATGGCCAAAGCAAAT	422
K A K N P K P D K K D DD E N G P K P N	52
AGTGACTTGGAAAGCTGGAAAGAACCTCCATTATTTATGGAGACATTCCCTCAGAGATG	482
S D L E A G K N L P F I Y G D I P P E M	72
GTGTCAGAGCCCCTGGAGGACCTGGACCCCTACTATATCAATAAGAAAACCTTTATAGTA	542
V S E P L E D L D P Y Y I N K K T F I V	92
TTGAATAAAATTGAAGGCCATCTTCCGGTTCACTGCCACCTCTGCCCTGTACATTAACT	602
L N K L K A I F R F S A T S A L Y I L T	112
CCCTTCAATCCTCTTAGGAAAATAGCTATTAAGATTTGGTACATTCACTTACAGCATG	662
P F N P L R K I A I K I L V H S L F S M	132
CTAATTATGTGCACTATTTGACAAACTGTGTATTGACAATGAGTAACCCCTCCTGAT	722
L I M C T I L T N C V F M T M S N P P D	152
TGGACAAAGAATGTAGAATAACACCTTCACAGGAATATATACTTTGAATCACTTATAAAA	782
W T K N V E Y T F T G I Y T F E S L I K	172
ATTATTGCAAGGGGATTCTGTTAGAAGATTTACTTCCCTCGGGATCCATGGAACCTGG	842
I I A R G F C L E D F T F L R D P W N W	192
CTCGATTTCACTGTCATTACATTTGCGTACGTACAGAGTTGTGGACCTGGCAATGTC	902
L D F T V I T F A Y V T E F V D L G N V	212
TCGGCATTGAGAACATTCAAGAGTTCTCCGAGCATTGAAGACGATTTCAGTCATTCCAGGC	962
S A L R T F R V L R A L K T I S V I P G	232
CTGAAAACCATTGTGGAGCCCTGATCCAGTCTGTGAAGAAGCTCTCAGATGTAATGATC	1022
L K T I V G A L I Q S V K K L S D V M I	252
CTGACTGTGTTCTGTCTGAGCGTATTGCTCTAATTGGGCTGCAGCTGTTCATGGCAAC	1082
L T V F C L S V F A L I G L Q L F M G N	272
CTGAGGAATAATGTATAACATGGCTCCCACCAATGCTCCTGGAGGAACATAGTATA	1142
L R N K C I Q W P P T N A S L E E H S I	292
GAAAAGAATATAACTGTGAATTATAATGGTACACTTATAAAATGAAACTGTCTTGAGTT	1202
E K N I T V N Y N G T L I N E T V F E F	312

EXHIBIT A

GACTGGAAGTCATATATTCAAGATTCAAGATATCATTATTCCTGGAGGGTTTTAGAT	1262
D W K S Y I Q D S R Y H Y F L E G F L D	332
GCAC TACTATGTGGAAATAGCTCTGATGCAGGCCAATGTCCAGAGGGATATATGTGTG	1322
A L L C G N S S D A G Q C P E G Y M C V	352
AAAGCTGGTAGAAATCCAATTATGGCTACACAAGCTTGATACCTTCAGTTGGCTTT	1382
K A G R N P N Y G Y T S F D T F S W A F	372
TTGTCCTGTTCGACTAATGACTCAGGACTTCTGA	1418
L S L F R L M T Q D F X	384

EXHIBIT B

BLAST COMPARISON OF SEQ ID NO: 2 TO OPEN READING FRAME

Identities = 1152/1152 (100%), Gaps = 0/1152 (0%)

SEQ ID NO: 2	267	ATGGAGCAACAGTGTGACAGCTGACAGCTCAACTTCTCACCAGAGAA	326
SCN1A ORF	1	ATGGAGCAACAGTGTGACAGCTGACAGCTCAACTTCTCACCAGAGAA	60
SEQ ID NO: 2	327	TCTCTGCGGCATTGAAAGACGCATTGCAGAAGAAAAGGCAAAGAATCCCACAGAC	386
SCN1A ORF	61	TCTCTGCGGCATTGAAAGACGCATTGCAGAAGAAAAGGCAAAGAATCCCACAGAC	120
SEQ ID NO: 2	387	AAAAAAAGATGACGACAAAATGGCCAAAGCCAAATAGTGAATTGGAAAGCTGGAAAGAAC	446
SCN1A ORF	121	AAAAAAAGATGACGACAAAATGGCCAAAGCCAAATAGTGAATTGGAAAGCTGGAAAGAAC	180
SEQ ID NO: 2	447	CTTCCATTATTTATGGAGACATTCCCTCAGAGATGGTGTCAAGAGCCCTGGAGGACCTG	506
SCN1A ORF	181	CTTCCATTATTTATGGAGACATTCCCTCAGAGATGGTGTCAAGAGCCCTGGAGGACCTG	240
SEQ ID NO: 2	507	GACCCCTACTATATCAATAAGAAAACTTTATAGTATTGAATAATTGAAGGCCATCTC	566
SCN1A ORF	241	GACCCCTACTATATCAATAAGAAAACTTTATAGTATTGAATAATTGAAGGCCATCTC	300
SEQ ID NO: 2	567	CGGTTCACTGCCACCTCTGCCCTGTACATTAACTCCCTCAATCCTTAGGAAAATA	626
SCN1A ORF	301	CGGTTCACTGCCACCTCTGCCCTGTACATTAACTCCCTCAATCCTTAGGAAAATA	360
SEQ ID NO: 2	627	GCTATTAAGATTTGGTACATTCAATTTCAGCATGCTAATTATGTGCACTATTTGACA	686
SCN1A ORF	361	GCTATTAAGATTTGGTACATTCAATTTCAGCATGCTAATTATGTGCACTATTTGACA	420
SEQ ID NO: 2	687	AACTGTGTGTTATGACAATGAGTAACCCCTGATTGGACAAAGAATGTAGAACACACC	746
SCN1A ORF	421	AACTGTGTGTTATGACAATGAGTAACCCCTGATTGGACAAAGAATGTAGAACACACC	480
SEQ ID NO: 2	747	TTCACAGGAATATATACTTTGAATCACTTATAAAATTATTGCAAGGGATTCTGTTA	806
SCN1A ORF	481	TTCACAGGAATATATACTTTGAATCACTTATAAAATTATTGCAAGGGATTCTGTTA	540
SEQ ID NO: 2	807	GAAGATTTACTTCCTCGGGATCCATGGAACCTGGCTCGATTCACTGTCATTACATT	866
SCN1A ORF	541	GAAGATTTACTTCCTCGGGATCCATGGAACCTGGCTCGATTCACTGTCATTACATT	600
SEQ ID NO: 2	867	GCGTACGTACAGAGTTGTGGACCTGGCAATGTCTCGCATTGAGAACATTCAAGAGTT	926
SCN1A ORF	601	GCGTACGTACAGAGTTGTGGACCTGGCAATGTCTCGCATTGAGAACATTCAAGAGTT	660
SEQ ID NO: 2	927	CTCCGAGCATTGAAGACGATTCACTCATTCCAGGCCTGAAAACCATTGTGGAGCCTG	986
SCN1A ORF	661	CTCCGAGCATTGAAGACGATTCACTCATTCCAGGCCTGAAAACCATTGTGGAGCCTG	720
SEQ ID NO: 2	987	ATCCAGTCTGTGAAGAAGCTCTCAGATGTAATTGATCCTGACTGTGTTCTGAGCGTA	1046
SCN1A ORF	721	ATCCAGTCTGTGAAGAAGCTCTCAGATGTAATTGATCCTGACTGTGTTCTGAGCGTA	780
SEQ ID NO: 2	1047	TTTGCTCTAATTGGGCTGCAGCTGTTCATGGGCAACCTGAGGAATAATGTATAACATGG	1106
SCN1A ORF	781	TTTGCTCTAATTGGGCTGCAGCTGTTCATGGGCAACCTGAGGAATAATGTATAACATGG	840
SEQ ID NO: 2	1107	CCTCCCACCAATGCTCCTGGAGGAACATAGTATAGAAAAGAATATAACTGTGAATTAT	1166
SCN1A ORF	841	CCTCCCACCAATGCTCCTGGAGGAACATAGTATAGAAAAGAATATAACTGTGAATTAT	900

EXHIBIT B

SEQ ID NO: 2 1167 AATGGTACACTTATAAATGAAACTGTCTTGAGTTGACTGGAAGTCATATATTCAAGAT 1226
SCN1A ORF 901 AATGGTACACTTATAAATGAAACTGTCTTGAGTTGACTGGAAGTCATATATTCAAGAT 960

SEQ ID NO: 2 1227 TCAAGATATCATTATTCCTGGAGGGTTTTAGATGCACTACTATGTGGAAATAGCTCT 1286
SCN1A ORF 961 TCAAGATATCATTATTCCTGGAGGGTTTTAGATGCACTACTATGTGGAAATAGCTCT 1020

SEQ ID NO: 2 1287 GATGCAGGCCAATGTCCAGAGGGATATATGTGTGAAAGCTGGTAGAAATCCCAATTAT 1346
SCN1A ORF 1021 GATGCAGGCCAATGTCCAGAGGGATATATGTGTGAAAGCTGGTAGAAATCCCAATTAT 1080

SEQ ID NO: 2 1347 GGCTACACAAGCTTGATAACCTTCAGTTGGCTTTGTCCCTGTTGACTAATGACT 1406
SCN1A ORF 1081 GGCTACACAAGCTTGATAACCTTCAGTTGGCTTTGTCCCTGTTGACTAATGACT 1140

SEQ ID NO: 2 1407 CAGGACTTCTGA 1418
SCN1A ORF 1141 CAGGACTTCTGA 1152